

Anti-Renilla Luciferase Rabbit Monoclonal Antibody

Catalog # ABO14255

Product Information

Application	WB, IF, ICC
Primary Accession	P27652
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Renilla Luciferase
Clonality	Monoclonal
Format	Liquid
Description	Anti-Renilla Luciferase Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Renilla Luciferase.

Additional Information

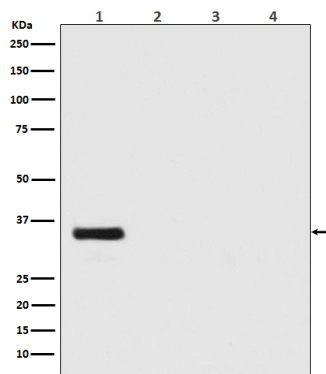
Other Names	Coelenterazine h 2-monooxygenase, 1.13.12.5, Renilla-luciferin 2-monooxygenase, Renilla-type luciferase, LUCI
Calculated MW	36022
Application Details	WB 1:500-1:2000 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: DAC-18
Immunogen	A synthesized peptide derived from Renilla Luciferase
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

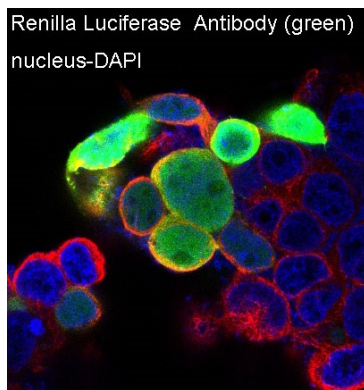
Name	LUCI
Function	Upon binding the substrate, the enzyme catalyzes an oxygenation, producing a very short-lived hydroperoxide that cyclizes into a dioxetanone structure, which collapses, releasing a CO(2) molecule. The spontaneous breakdown of the dioxetanone releases the energy (about 50 kcal/mole) that is necessary to generate the excited state of the coelenteramide product, which is the singlet form of the monoanion. In vivo the product undergoes

the process of nonradiative energy transfer to an accessory protein, a green fluorescent protein (GFP), which results in green bioluminescence. In vitro, in the absence of GFP, the product emits blue light.

Images



Western blot analysis of Renilla Luciferase expression in (1) Renilla Luciferase transfected 293 cell lysate; (2) HeLa cell lysate; (3) NIH/3T3 cell lysate; (4) C6 cell lysate.



Immunofluorescent analysis of 293 cells transfected with Renilla Luciferase, using Renilla Luciferase Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.